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(12) **United States Patent**
Drifka

(10) **Patent No.:** **US 9,410,368 B2**
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(54) **DEVICE AND METHOD FOR INCREASING
THE WIND LOAD RESISTANCE AND
DISENGAGE-ABILITY OF OVERHEAD
ROLL-UP DOORS**

USPC 160/290.1, 268.1, 267.1, 274, 275, 271
See application file for complete search history.

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(57) **ABSTRACT**

A door assembly having a flexible door panel wound and unwound on a drum or the like to selectively block or permit access through an opening, the flexible door panel having a stiffness, a width, and a length. The door assembly further includes vertically extending side columns disposed on opposite sides of the opening, the side columns being configured to engage a marginal edge of the flexible panel to vertically guide the panel while opening or closing. Attached to a leading edge of the door panel is a bottom bar having a greater stiffness than the door panel and a narrower width than a distance between the vertical panel guide assemblies. Bottom bar guides are disposed proximate a lower portion of the opening and are configured to engage a portion of the bottom bar only when the bottom bar is located in at least a partially closed position.

15 Claims, 5 Drawing Sheets

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(51) **Int. Cl.**

E06B 9/58 (2006.01)

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(52) **U.S. Cl.**

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E06B 9/58 (2013.01); **E06B 9/17046** (2013.01);
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(58) **Field of Classification Search**

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